

The Generalized KPZ equation

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Resumo/Abstract:

The generalized KPZ equation is a SPDE driven by a multiplicative space-time white noise with a quadratic nonlinearity in the space-derivative multiplied by a generic smooth non-linear function of the solution. We present some ongoing work on the resolution of this equation using the recent theory by Martin Hairer on Regularity Structures and the renormalization of SPDEs.